

BC



(12) **EUROPEAN PATENT APPLICATION**
published in accordance with Art. 158(3) EPC

(43) Date of publication:
24.07.2002 Bulletin 2002/30

(21) Application number: **00963041.9**

(22) Date of filing: **02.10.2000**

(51) Int Cl.⁷: **C12N 15/12**, C07K 14/435,
C07K 16/18, C12P 21/02,
C12Q 1/68, A61K 38/00,
A61K 39/395, A61K 48/00,
A61P 9/10, G01N 33/50,
G01N 33/53

(86) International application number:
PCT/JP00/06840

(87) International publication number:
WO 01/25427 (12.04.2001 Gazette 2001/15)

(84) Designated Contracting States:
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU
MC NL PT SE
Designated Extension States:
AL LT LV MK RO SI

(30) Priority: **01.10.1999 JP 28097699**

(71) Applicants:
• **KYOWA HAKKO KOGYO CO., LTD.**
Chiyoda-ku, Tokyo 100-8185 (JP)
• **Nojima, Hiroshi**
Minoo-shi, Osaka 562-0031 (JP)

(72) Inventors:
• **NOJIMA, Hiroshi**
Mino-shi, Osaka 562-0031 (JP)
• **YOSHISUE, Hajime,**
Kyowa Hakkko Kogyo Co. Ltd.
Machida-shi, Tokyo 194-8533 (JP)
• **OBAYASHI, Masaya,**
Kyowa Hakko Kogyo Co. Ltd.
Machida-shi, Tokyo 194-8533 (JP)

• **OTA, Toshio, Kyowa Hakko Kogyo Co. Ltd.**
Machida-shi, Tokyo 194-8533 (JP)
• **KAWABATA, Ayako,**
Kyowa Hakko Kogyo Co. Ltd.
Machida-shi, Tokyo 194-8533 (JP)
• **SAKURADA, Kazuhiro,**
Kyowa Hakko Kogyo Co. Ltd.
Machida-shi, Tokyo 194-8533 (JP)
• **KUGA, Tetsuro, Kyowa Hakko Kogyo Co. Ltd.**
Hohu-shi, Yamaguchi 747-8522 (JP)
• **SEKINE, Susumu, Kyowa Hakko Kogyo Co. Ltd.**
Machida-shi, Tokyo 194-8533 (JP)
• **NAKAMURA, Yusuke**
Yokohama-shi, Kanagawa 225-0011 (JP)
• **SUGANO, Sumio**
Suginami-ku, Tokyo 167-0052 (JP)

(74) Representative: **VOSSIUS & PARTNER**
Siebertstrasse 4
81675 München (DE)

(54) **SHEAR STRESS-RESPONSE DNA**

(57) This invention relates to a novel shear stress-responsive DNA, a protein encoded by the DNA, an antibody against the protein, a method for detecting a shear stress-responsive DNA or protein, a therapeutic

agent and a diagnostic agent for vascular diseases caused by arteriosclerosis and a method for screening the therapeutic agent and the diagnostic agent.